



Part 1 (Database and Model):

Responsibilities-

- Responsible for ERD design and implementation.
- Each entity should have its own class (Model) with getters, and setters.
- Models are responsible for data saving and retrieving from database.

Deliverables-

- List of Models and their public methods.
- ERD

Required Skills-

Mysql, NodeJS, Javascript

Part 2 (Middleware):

Responsibilities-

- Retrieve data using models for each functionalities.
- Parse data, create suitable model instance and call save/delete/update method to manipulate data in database.
- Save static (CV for candidates) files to file system, and give url to save in database.

Deliverables-

Single Method for each functionality (Single interface to call all methods)

Required Skills-

NodeJS, File Stream, Javascript

Part 3 (Controller):

Responsibilities-

- Handle all requests from UI, call responsible method from middleware and give relevant output.
- Input/output data should be in JSON format.

Deliverables-

- HTTP endpoint for each functionality.
- API Documentation.

Required Skills-

NodeJS, http module, url module, and JSON.

Part 4 (UI – Backend Connector)

Responsibilities-

- Connect UI to backend and update view dynamically as required.
- Validate all form data and send to backend using Ajax.
- Follow API documentation given from part 3.

Deliverables-

Make sure all functionalities works from user point of view.

Required Skills-

Javascript, jQuery, Ajax, JSON

Part 5 (UI – HTML and CSS):

Responsibilities-

- Basic user interface using HTML and CSS (Bootstrap – optional)

Deliverables-

Design for all required pages using dummy data.

Required Skills-

HTML, CSS, (Bootstrap, Javascript – optional)

Benefits of this model:

- All part can be implement only by reading requirements.
- Each part dependent on its left and right parts only.
- No one needs to learn and work with all skills needed for this project.
- Everyone is responsible for ***design and implementation*** of his own part only.